



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4038	DISPATCH DATE				14.07.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.		15851
3.	Booked to			SSE/C&W/BZA			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105	
	v)	Buffer/CBC (Make)	ESCORTS		Fiba Device	NA	
7.	Air Brake Testing:		Description		Specified		Observed
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 –10 sec		6 Sec
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²		3.00
			All Brake are applied		OK		OK
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application		OK
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply		OK
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
	8.1	PAINT	PU PAINT		VIBGYOR	87	
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT				KBI	
	iii.	CDTS				AIR FLOW	
	iv.	SEATS/S&B				GANDHI	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				CP/JBM	
	viii.	WATER TANKS				E C BLADES & SHIVALIK	
	ix	FUEL TANK				SHIVALIK	
	x	UIC VESTIBULE				ELASTOMER	
	XI	FLOOR BOARD				TAYAL	
	XII	PVC				RESPONSIVE	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			4038		SCR		LWLRRM		15851		21-01-2015	
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)						LPC-II NPP Side (Non guard)			
11.2	i.	Bogie No.	156065						156064			
	ii.	Frame No.	SCI/FM-87						SCI-FM-80			
	iii.	Bolster No.	4448-GT						4436-GT			
	iv.	Axle No.	C-4086			W-4601			Z-3281		B-9819	
	v.	Wheel Dia.	917.00	917.00	915.00	915.00	916.00	916.00	917.00	917.00		
	vi.	Wheel Disc No.	283-63305	196-11611	338-51908	074-51782	312-63309	068-10583	045-10559	151-11600		
	vii.	R.B. Nos.	02987	03179	02535	01455	03296	03150	03121	03353		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.3	<u>Secondary suspension load deflection Values:</u>											
		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
11.4	Make & nos.	G-12-10-167	G-12-10-235	G12-10-264	G-12-10-175	CMFSK-14-02-8338	G-12-5-242	CMFSK-14-02-8475	G-12-5-279			
	Ht. attest load	511	466	509	467	512	467	515	468			
11.	Align .deviation	9	7	13	8	5	3	6	3			
	<u>Items traceability:</u>											
11.1	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
11.2	i.	Primary Outer Spring			L&S-13-2			L&S-13-02			L&S	
	ii.	Primary inner Spring			G-12-5			G-12-5			GF	
	iii.	Primary Damper			22690,22689,22623,21243			22570,22626,22607,22630			KONI	
	iv.	Secondary damper			436,454			337,40			GEREP	
	v.	Lateral Damper			521			520			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			11301/261,08517/262, 11-6626/261,03515/261			11300/261,18845/261, 11302/261,11282/261			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
11.3	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
11.4	xiii.	Ball joint traction lever									GMT	
	xiv.	Traction centre elastic									SGA	
11.	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
11.1	xvii.	Anti roll bar make									EMSON	
11.2	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5004	DISPATCH DATE				22.07.2015
2.	Railway	SCR	Type	LWLRRM	Coach No.		15852
3.	Booked to			SSE/C&W/SC			
4.	Tare Weight of Coach		53.4 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	3.9 T
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105	
	v)	Buffer/CBC (Make)	ESCORTS		Fiba Device	NA	
7.	Air Brake Testing:		Description		Specified		Observed
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 -10 sec		6 Sec
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²		3.00
			All Brake are applied		OK		OK
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application		OK
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply		OK
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE	AVERAGE GLOSS VALUE	
	8.1	PAINT	PU PAINT		VIBGYOR	87	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
	i.	BRAKE EQUIPMENT				FAIVELEY	
	iii.	CDTS				AIR FLOW	
	iv.	SEATS/S&B				RCF	
	v.	BODY SIDE DOOR				JBM	
	vi.	VESTIBULE SLIDING DOOR				KALSI	
	vii.	CREW-GEN & GUARD ROOM DOOR				CP/JBM	
	viii.	WATER TANKS				E C BLADES & SHIVALIK	
	ix	FUEL TANK				SHIVALIK	
	x	UIC VESTIBULE				ELASTOMER	
	XI	FLOOR BOARD				TAYAL	
	XII	PVC				RESPONSIVE	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5004	SCR	LWLRRM	15852	23-04-2015			
11.1	Wheel & Axle Details:		LPC-1 PP Side(Guard)				LPC-II NPP Side (Non guard)			
11.2	i.	Bogie No.	156316				156329			
	ii.	Frame No.	SCI/FM-121				FIAT-3729			
	iii.	Bolster No.	4494-GT				4634-P			
	iv.	Axle No.	126038/475		106379/629		C-4706		128332/991	
	v.	Wheel Dia.	915.50	915.50	915.50	915.50	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	145-61077	116-61077	193-10533	326-10568	140-10583	188-63309	316-11611	152-10559
	vii.	R.B. Nos.	24289	31052	24395	31129	37094	36462	37796	36489
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.3	<u>Secondary suspension load deflection Values:</u>									
		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
11.4	Make & nos.	G12-10-157	HZ-13-006	G12-10-207	HZ-13-007	FSK-15-3-8	G-12-9-144	FSK-15-3-27	G-12-9-395	
	Ht. attest load	510	466.1	511	464	515	470	513	470	
11.	Align .deviation	7	10.5	7	12.7	8	14	8	17	
<u>Items traceability:</u>										
11.1	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
11.2	i.	Primary Outer Spring			BPS-2013		BPS-2013		BPS	
	ii.	Primary inner Spring			FSK-14-5		FSK-14-5		FSK	
	iii.	Primary Damper			82,69,48,43		52,97,81,89		GEREP	
	iv.	Secondary damper			897,887		857,839		GEREP	
	v.	Lateral Damper			2952		2811		KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			141803/2000,141840/2000 141791/2000,141835/2000		141795/2000,141805/2000 141798/2000,141820/2000		FTI	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							MGN	
11.3	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
11.4	xiii.	Ball joint traction lever							SGA,GMT	
	xiv.	Traction centre elastic							SGA	
11.	xv.	Secondary rubber pad							TESPAK	
	xvi.	Rubber spring							GMT	
11.1	xvii.	Anti roll bar make							EMSON	
11.2	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON,SARITA	
	i.	Modification / Trial (if any):							NIL	
	ii.	Deviations (if any):							NIL	